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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/843,637	04/26/2001	Shuhei Marukawa	10873.703US01	9215
23552 7:	590 07/13/2004		EXAMINER	
MERCHANT & GOULD PC P.O. BOX 2903			CHANEY, CAROL DIANE	
	IS, MN 55402-0903		ART UNIT	PAPER NUMBER
	•		1745	

DATE MAILED: 07/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			<u>u</u>
	Application No.	Applicant(s)	
	09/843,637	MARUKAWA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Carol Chaney	1745	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a noily within the statutory minimum of thirt will apply and will expire SIX (6) MON e, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	ation.
Status			
1) Responsive to communication(s) filed on 16 M	∕larch 2004.		
	s action is non-final.		
3) Since this application is in condition for alloware closed in accordance with the practice under	<u>.</u>	•	s is
Disposition of Claims			
4) □ Claim(s) 1 and 2 is/are pending in the applicate 4a) Of the above claim(s) is/are withdrate 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1 and 2 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or and/or are subject.	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine	er.	•	r
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to I	by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	•	•	, ,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* See the attached detailed Office action for a list	ts have been received. ts have been received in A prity documents have been au (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s)	,, □,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(570.440)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		formal Patent Application (PTO-152)	

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Claim Rejections - 35 USC §102

The texts of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Shimakawa et al., US Patent 5,817,435, for essentially the reasons of record.

Shimakawa et al. disclose a battery comprising two end plates (33) and a plurality of cells (10) stacked adjacent to each other and bound by the end plates. The cells include a casing (12) of polyphenylene ether, polystyrene and preferably an elastomer. (column 3, lines 50-55.) The dimensions of the end plates and the binding members, which determine binding forces, are set in part by the number of stacked cells in the battery. (Column 6, lines 13-28.) The end plates and binding rods will cause the battery containers to be compressed immediately after assembly. As can be seen from Table 3 in column 8 of the Shimakawa et al. reference, battery casings were held at 60°C with an internal pressure of 0.2 MPa, or about 2 atmosphere, for over 10,000 hours without breakage. Since the battery cases did not break, there was clearly no irreversible deformation beyond an expansion limit of the battery container.

With regards to claim 2, it is noted from a comparison of Figs. 3 and 4 of the Shimakawa et al. patent that the cells include a plate group, and the cells and the electrode plates are stacked in the same direction.

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Response to Arguments

Applicant's arguments filed 16 March 2004 have been fully considered but they are not persuasive. Applicants assert Shimakawa fails to teach a combined battery in which the binding force is selected by considering the balance position between an expanded cell and a compressed cell from the F-S curve, based on the number and compressibility of the cells. However, applicants' claims are directed to a battery with a plurality of cells bound by two end plates. Applicants claims require battery cells are bound by the two end plates under the condition that no more than a predetermined amount of irreversible deformation is caused in the battery container. Shimakawa et al. clearly disclose such a battery. The actual batteries claimed by the applicants and Shimakawa et al. are not distinguished, even though applicants and the prior art do not use identical description of the batteries. The Court of Customs and Patent Appeals has long recognized that an invention may be described in different ways and still be the same invention. See Kennecott Corp. v. Kyocera International, Inc. 5 USPQ2d 1194 (CFAC 12-22-87) and In re Kirscher, 134 USPQ 324 (CCPA 1962).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carol Chaney whose telephone number is (571) 272-1284. The examiner can normally be reached on Mon - Fri 8:30am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Carol Chaney Primary Examiner

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9 July 2004